

In the claims:

1. (Currently Amended) A windshield wiper drive for imparting overlapping butterfly oscillation to a pair of spaced wiper shafts from a rotary drive member having a crank arm comprising:

a drive link having first, second, and third connection points, the first connection point adjacent one end of the drive link and pivotally connectible to the crank arm of the rotary drive member, the second connection point adjacent an opposite end of the drive link, and the third connection point interposed between the first connection point and the second connection point along the drive link;

an idler pivot link pivotable about a fixed axis and having at least three crank arms extending radially from the fixed axis and spaced from one another, the fixed axis of the idler pivot link being separate and independent of the pair of spaced wiper shafts to be driven;

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a first elongate link pivotally connected at one end to a first crank arm of the idler pivot link and pivotally connected at an opposite end to the second connection point of the drive link;

a second elongate link pivotally connected at one end to a second crank arm of the idler pivot link and pivotally connected at an opposite end to the third connection point of the drive link, the first and second elongate links crossing with respect to one another; and

a third elongate link pivotally connected at one end to a third crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a first one of the pair of spaced wiper shafts.

2. (Currently Amended) The A windshield wiper drive of claim 1 further for imparting overlapping butterfly oscillation to a pair of spaced wiper shafts from a rotary drive member having a crank arm comprising:

a drive link having first, second, and third connection points, the first connection point adjacent one end of the drive link and pivotally connectible to the crank arm of the rotary drive member, the second connection point adjacent an

opposite end of the drive link, and the third connection point interposed between the first connection point and the second connection point along the drive link;

an idler pivot link pivotable about a fixed axis and having at least three crank arms extending radially from the fixed axis and spaced from one another, the idler pivot link having a fourth crank arm;

a first elongate link pivotally connected at one end to a first crank arm of the idler pivot link and pivotally connected at an opposite end to the second connection point of the drive link;

a second elongate link pivotally connected at one end to a second crank arm of the idler pivot link and pivotally connected at an opposite end to the third connection point of the drive link, the first and second elongate links crossing with respect to one another;

a third elongate link pivotally connected at one end to a third crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a first one of the pair of spaced wiper shafts; and

a fourth elongate link pivotally connected at one end to the fourth crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a second one of the pair of spaced wiper shafts.

3. (Original) The windshield wiper drive of claim 1 further comprising:

a fourth elongate link pivotally connectible at one end to the crank arm of the rotary drive member and pivotally connectible at an opposite end for driving a second one of the pair of spaced wiper shafts.

4. (Original) The windshield wiper drive of claim 1 further comprising:

the first, second, and third crank arms of the idler pivot link spaced angularly from one another about the fixed axis.

5. (Currently Amended) The windshield wiper drive of claim 1 further comprising:

the fixed axis of rotation for the idler pivot link located in a position spaced in between the crank arm of the rotary drive member and one of from the wiper shafts to be driven.

6. (Currently Amended) In a windshield wiper drive system for imparting overlapping butterfly oscillation to a pair of spaced wiper shafts, the improvement comprising:

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idler pivot link means connectible to at least one of the pair of spaced wiper shafts for imparting lower acceleration oscillation in proximity to a reversal position of each connected wiper shaft than imparted intermediate a park position and the reversal position of each connected wiper shaft, the idler pivot link means having a fixed axis of rotation spaced from the wiper shafts.

7. (Original) The improvement of claim 6 further comprising:

a rotary drive member having a crank arm connectible to the idler pivot link means for driving the idler pivot link means in rotation about ^{the} ~~(a)~~ fixed axis.

8. (Original) The improvement of claim 6 further comprising:

the idler pivot link means for imparting a dwell in oscillation to one of the connected wiper shafts allowing sufficient movement of the other wiper shaft to clear a path for oscillation from the park position of the one connected wiper shaft after the dwell in oscillation.

9. (Original) The improvement of claim 6 wherein the idler pivot link means further comprises:

a drive link having first, second, and third connection points, the first connection point adjacent one end of the drive link and pivotally connectible to a crank arm of a rotary drive member, the second connection point adjacent an opposite end of the drive link, and the third connection point interposed between the first connection point and the second connection point along the drive link;

an idler pivot link pivotable about a fixed axis and having at least three crank arms extending radially from the fixed axis and spaced from one another;

a first elongate link pivotally connected at one end to a first crank arm of the idler pivot link and pivotally connected at an opposite end to the second connection point of the drive link;

a second elongate link pivotally connected at one end to a second crank arm of the idler pivot link and pivotally connected at an opposite end to the third connection point of the drive link, the first and second elongate links crossing with respect to one another; and

a third elongate link pivotally connected at one end to a third crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a first one of the pair of spaced wiper shafts.

10. (Currently Amended) The In a windshield wiper drive system for imparting overlapping butterfly oscillation to a pair of spaced wiper shafts, the improvement of claim 9 further comprising:

a drive link having first, second, and third connection points, the first connection point adjacent one end of the drive link and pivotally connectible to a crank arm of a rotary drive member, the second connection point adjacent an opposite end of the drive link, and the third connection point interposed between the first connection point and the second connection point along the drive link;

an idler pivot link pivotable about a fixed axis and having at least three crank arms extending radially from the fixed axis and spaced from one another, the idler pivot link connectible to at least one of the pair of spaced wiper shafts for imparting lower acceleration oscillation in proximity to a reversal position of each connected wiper shaft than imparted intermediate a park position and the reversal position of each connected wiper shaft, the idler pivot link having a fourth crank arm;

a first elongate link pivotally connected at one end to a first crank arm of the idler pivot link and pivotally connected at an opposite end to the second connection point of the drive link;

a second elongate link pivotally connected at one end to a second crank arm of the idler pivot link and pivotally connected at an opposite end to the third connection point of the drive link, the first and second elongate links crossing with respect to one another;

a third elongate link pivotally connected at one end to a third crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a first one of the pair of spaced wiper shafts; and

a fourth elongate link pivotally connected at one end to the fourth crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a second one of the pair of spaced wiper shafts.


11. (Original) The improvement of claim 9 further comprising:

a fourth elongate link pivotally connectible at one end to the crank arm of the rotary drive member and pivotally connectible at an opposite end for driving a second one of the pair of spaced wiper shafts.

12. (Original) The improvement of claim 9 further comprising:

the first, second, and third crank arms of the idler pivot link spaced angularly from one another about the fixed axis.

13. (Currently Amended) The In a windshield wiper drive system for imparting overlapping butterfly oscillation to a pair of spaced wiper shafts, the improvement of claim 9 further comprising:

a drive link having first, second, and third connection points, the first connection point adjacent one end of the drive link and pivotally connectible to a crank arm of a rotary drive member, the second connection point adjacent an opposite end of the drive link, and the third connection point interposed between the first connection point and the second connection point along the drive link;

an idler pivot link pivotable about a fixed axis and having at least three crank arms extending radially from the fixed axis and spaced from one another, the idler pivot link connectible to at least one of the pair of spaced wiper shafts for

imparting lower acceleration oscillation in proximity to a reversal position of each connected wiper shaft than imparted intermediate a park position and the reversal position of each connected wiper shaft, the fixed axis of rotation for the idler pivot link spaced from the wiper shafts;

a first elongate link pivotally connected at one end to a first crank arm of the idler pivot link and pivotally connected at an opposite end to the second connection point of the drive link;

a second elongate link pivotally connected at one end to a second crank arm of the idler pivot link and pivotally connected at an opposite end to the third connection point of the drive link, the first and second elongate links crossing with respect to one another;

a third elongate link pivotally connected at one end to a third crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a first one of the pair of spaced wiper shafts.

14. (Currently Amended) In a windshield wiper drive system for imparting overlapping butterfly oscillation to a pair of spaced wiper shafts, the improvement comprising:

idler pivot link means rotatable about a fixed axis and connectible to at least one of the pair of spaced wiper shafts for imparting a dwell in oscillation in proximity to a park position of the at least one of the connected wiper shafts, the idler pivot link means having an axis of rotation spaced from the wiper shafts.

15. (Original) The improvement of claim 14 further comprising:
a rotary drive member having a crank arm connectible to the idler pivot link means for driving the idler pivot link means in rotation about the fixed axis.

16. (Original) The improvement of claim 14 wherein the idler pivot link means further comprises:

a drive link having first, second, and third connection points, the first connection point adjacent one end of the drive link and pivotally connectible to a

crank arm of a rotary drive member, the second connection point adjacent an opposite end of the drive link, and the third connection point interposed between the first connection point and the second connection point along the drive link;

an idler pivot link pivotable about a fixed axis and having at least three crank arms extending radially from the fixed axis and spaced from one another;

a first elongate link pivotally connected at one end to a first crank arm of the idler pivot link and pivotally connected at an opposite end to the second connection point of the drive link;

a second elongate link pivotally connected at one end to a second crank arm of the idler pivot link and pivotally connected at an opposite end to the third connection point of the drive link, the first and second elongate links crossing with respect to one another; and

a third elongate link pivotally connected at one end to a third crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a first one of the pair of spaced wiper shafts.

17. (Currently Amended) The In a windshield wiper drive system for imparting overlapping butterfly oscillation to a pair of spaced wiper shafts, the improvement of claim 16 further comprising:

a drive link having first, second, and third connection points, the first connection point adjacent one end of the drive link and pivotally connectible to a crank arm of a rotary drive member, the second connection point adjacent an opposite end of the drive link, and the third connection point interposed between the first connection point and the second connection point along the drive link;

an idler pivot link pivotable about a fixed axis and having at least three crank arms extending radially from the fixed axis and spaced from one another, the idler pivot link rotatable about a fixed axis and connectible to at least one of the pair of spaced wiper shafts for imparting a dwell in oscillation in proximity to a park position of the at least one of the connected wiper shafts, the idler pivot link having a fourth crank arm;

a first elongate link pivotally connected at one end to a first crank arm of the idler pivot link and pivotally connected at an opposite end to the second connection point of the drive link;

a second elongate link pivotally connected at one end to a second crank arm of the idler pivot link and pivotally connected at an opposite end to the third connection point of the drive link, the first and second elongate links crossing with respect to one another;

a third elongate link pivotally connected at one end to a third crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a first one of the pair of spaced wiper shafts; and

a fourth elongate link pivotally connected at one end to the fourth crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a second one of the pair of spaced wiper shafts.

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18. (Original) The improvement of claim 16 further comprising:
a fourth elongate link pivotally connectible at one end to the crank arm of the rotary drive member and pivotally connectible at an opposite end for driving a second one of the pair of spaced wiper shafts.

19. (Original) The improvement of claim 16 further comprising:
the first, second, and third crank arms of the idler pivot link spaced angularly from one another about the fixed axis.

20. (Currently Amended) The In a windshield wiper drive system for imparting overlapping butterfly oscillation to a pair of spaced wiper shafts, the improvement of claim 16 further comprising:

a drive link having first, second, and third connection points, the first connection point adjacent one end of the drive link and pivotally connectible to a crank arm of a rotary drive member, the second connection point adjacent an opposite end of the drive link, and the third connection point interposed between the first connection point and the second connection point along the drive link;

an idler pivot link pivotable about a fixed axis and having at least three crank arms extending radially from the fixed axis and spaced from one another, the idler pivot link rotatable about a fixed axis and connectible to at least one of the pair of spaced wiper shafts for imparting a dwell in oscillation in proximity to a park position of the at least one of the connected wiper shafts, the fixed axis of rotation for the idler pivot link spaced from the wiper shafts;

a first elongate link pivotally connected at one end to a first crank arm of the idler pivot link and pivotally connected at an opposite end to the second connection point of the drive link;

a second elongate link pivotally connected at one end to a second crank arm of the idler pivot link and pivotally connected at an opposite end to the third connection point of the drive link, the first and second elongate links crossing with respect to one another; and

a third elongate link pivotally connected at one end to a third crank arm of the idler pivot link and pivotally connectible at an opposite end for driving a first one of the pair of spaced wiper shafts.